

## SEQUENCE LISTING

&lt;110&gt; Merck Patent GmbH

&lt;120&gt; Histidine Protein Phosphatase

&lt;130&gt; Histidine Phosphatase Protein

&lt;140&gt;

&lt;141&gt;

&lt;160&gt; 11

&lt;170&gt; PatentIn Ver. 2.1

&lt;210&gt; 1

&lt;211&gt; 375

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(375)

&lt;223&gt; Human histidine protein phosphatase

&lt;400&gt; 1

atg gcg gtg gcg gac ctc gct ctc att cct gat gtg gac atc gac tcc  
48Met Ala Val Ala Asp Leu Ala Leu Ile Pro Asp Val Asp Ile Asp Ser  
1 5 10 15gac ggc gtc ttc aag tat gtg ctg atc cga gtc cac tcg gct ccc cgc  
96Asp Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Ser Ala Pro Arg  
20 25 30tcc ggg gct ccg gct gca gag agc aag gag atc gtg cgc ggc tac aag  
144Ser Gly Ala Pro Ala Ala Glu Ser Lys Glu Ile Val Arg Gly Tyr Lys  
35 40 45tgg gct gag tac cat gcg gac atc tac gac aaa gtg tcg ggc gac atg  
192Trp Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Asp Met  
50 55 60

cag aag caa ggc tgc gac tgt gag tgt ctg ggc ggc ggc cgc atc tcc

240  
 Gln Lys Gln Gly Cys Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser  
 65 70 75 80  
 cac cag agt cag gac aag aag att cac gtg tac ggc tat tcc atg gcc  
 288  
 His Gln Ser Gln Asp Lys Lys Ile His Val Tyr Gly Tyr Ser Met Ala  
 85 90 95  
 tat ggt cct gcc cag cac gcc att tca act gag aaa atc aaa gcc aag  
 336  
 Tyr Gly Pro Ala Gln His Ala Ile Ser Thr Glu Lys Ile Lys Ala Lys  
 100 105 110  
 tac ccc gac tac gag gtc acc tgg gct aac gac ggc tac  
 375  
 Tyr Pro Asp Tyr Glu Val Thr Trp Ala Asn Asp Gly Tyr  
 115 120 125

<210> 2  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 2  
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 Asp Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Ser Ala Pro Arg  
 20 25 30  
 Ser Gly Ala Pro Ala Ala Glu Ser Lys Glu Ile Val Arg Gly Tyr Lys  
 35 40 45  
 Trp Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Asp Met  
 50 55 60  
 Gln Lys Gln Gly Cys Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser  
 65 70 75 80  
 His Gln Ser Gln Asp Lys Lys Ile His Val Tyr Gly Tyr Ser Met Ala  
 85 90 95  
 Tyr Gly Pro Ala Gln His Ala Ile Ser Thr Glu Lys Ile Lys Ala Lys  
 100 105 110  
 Tyr Pro Asp Tyr Glu Val Thr Trp Ala Asn Asp Gly Tyr

115

120

125

<210> 3  
 <211> 16  
 <212> PRT  
 <213> mammalian

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 <221> PEPTIDE  
 <222> (1)..(16)  
 <223> conserved mammalian sequence

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 Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His Gln Ser Gln Asp  
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<210> 4  
 <211> 33  
 <212> PRT  
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<220>  
 <221> PEPTIDE  
 <222> (1)..(33)  
 <223> conserved mammalian sequence 2

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 <222> (17)  
 <223> X = K or R

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 <223> X = A or G

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 Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His Gln Ser Gln Asp  
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Xaa Lys Ile His Val Tyr Gly Tyr Ser Met Xaa Tyr Gly Xaa Ala Gln

20

25

30

His

<210> 5  
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 <212> PRT  
 <213> mammalian

<220>  
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 <222> (1)..(44)  
 <223> conserved mammalian sequence 3

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 Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Asp Met Gln Lys Gln  
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Gly Cys Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His Gln Ser  
                           20                          25                          30

Gln Asp Lys Lys Ile His Val Tyr Gly Tyr Ser Met  
                   35                          40

<210> 6  
 <211> 124  
 <212> PRT  
 <213> rabbit

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 <222> (1)..(124)  
 <223> rabbit histidine protein phosphatase

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 Ala Ala Ala Gly Leu Ala Gln Ile Pro Asp Val Asp Ile Asp Ser Asp  
           1                          5                          10                          15

Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Ala Ala Pro Pro Ser  
                   20                          25                          30

Glu Ala Pro Gly Gly Glu Ser Lys Asp Ile Val Arg Gly Tyr Lys Trp  
           35                          40                          45

Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Glu Leu Gln

50                      55                      60  
 Lys Lys Gly His Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His  
   65                      70                      75                      80  
 Gln Ser Gln Asp Arg Lys Ile His Val Tyr Gly Tyr Ser Met Gly Tyr  
                     85                      90                      95  
 Gly Arg Ala Gln His Ser Val Ser Thr Glu Lys Ile Arg Ala Lys Tyr  
                     100                      105                      110  
 Pro Asp Tyr Glu Val Thr Trp Ala Asp Asp Gly Tyr  
                     115                      120

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 <212> PRT  
 <213> rat

<220>  
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                     20                      25                      30  
 Ser Val Gly Pro Thr Arg Ala Thr Arg Ala Tyr Pro Glu Ala Thr Leu  
                     35                      40                      45  
 Pro Thr Ser Ala Asp Ile Tyr Asp Lys Val Ser Gly Glu Leu Gln Lys  
                     50                      55                      60  
 Asn Gly Tyr Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His Gln  
   65                      70                      75                      80  
 Ser Gln Asp Arg Lys Ile His Val Tyr Gly Tyr Ser Met Gly Tyr Gly  
                     85                      90                      95  
 Arg Ala Gln His Ser Val Ser Thr Glu Lys Ile Lys Ala Lys Tyr Pro  
                     100                      105                      110  
 Asp Tyr Glu Val Thr Trp Ala Asp Asp Gly Tyr

115

120

<210> 8  
 <211> 124  
 <212> PRT  
 <213> mouse

<220>  
 <221> PEPTIDE  
 <222> (1)..(124)  
 <223> mouse histidine protein phosphatase

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 Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Leu Ala Glu Pro Ser  
                   20                  25                  30  
 Gly Asp Pro Ala Lys Glu Cys Lys Glu Ile Val Arg Gly Tyr Lys Trp  
                   35                  40                  45  
 Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Glu Leu Gln  
   50                  55                  60  
 Arg Asn Gly Tyr Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His  
   65                  70                  75                  80  
 Gln Ser Gln Asp Arg Lys Ile His Val Tyr Gly Tyr Ser Met Gly Tyr  
                   85                  90                  95  
 Gly Arg Ala Gln His Ser Val Ser Thr Glu Lys Ile Lys Ala Lys Tyr  
                   100                  105                  110  
 Pro Asp Tyr Glu Val Thr Trp Ala Asp Asp Gly Tyr  
   115                  120

<210> 9  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Peptide for  
           generating an antibody directed against histidine  
           protein phosphatase

00014831.030401  
 104050 "TEST660"

&lt;400&gt; 9

Gln Ile Pro Asp Val Asp Ile Asp Ser Asp Gly Val Phe Lys Tyr Val  
 1 5 10 15

&lt;210&gt; 10

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: peptide for  
 generating an antibody directed against histidine  
 protein phosphatase

&lt;400&gt; 10

Cys Leu Gly Gly Gly Arg Ile Ser His Gln Ser Gln Asp Lys  
 1 5 10

&lt;210&gt; 11

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: peptide for  
 generating an antibody directed against histidine  
 protein phosphatase

&lt;400&gt; 11

Cys Thr Glu Lys Ile Lys Ala Lys Tyr Pro Asp Tyr Glu Val  
 1 5 10

09914531-090401